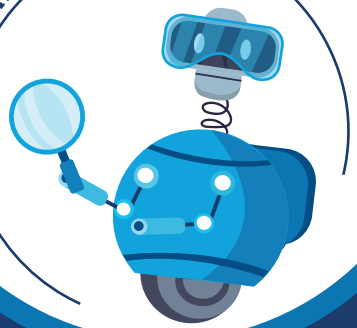
RESEARCH SCIENTIST



JOB DESCRIPTION

Research Scientists in aviation conduct experiments, simulations, and analytical studies to develop new technologies and improve existing systems. They collaborate with engineers, pilots, and regulatory bodies to ensure that their research addresses practical challenges in aviation. Their findings are often published in scientific journals and presented at industry conferences.

SALARY

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DAILY ROUTINE

Designing and conducting experiments, analyzing data, developing models and simulations, writing research papers and reports, applying for research grants, and collaborating with other researchers and industry professionals.

IMPACT ON PRIVATE LIFE

The role typically follows standard office hours, but project deadlines or experimental requirements may necessitate additional hours. It may involve travel for conferences, meetings, workshops, fieldwork, or collaboration with other institutions.

SKILLS AND COMPETENCIES

Strong analytical and problem-solving skills, proficiency in research methodologies, experience with simulation and modelling software, excellent communication abilities, and a deep understanding of aviation systems and technologies.

SELECTION CRITERIA

Candidates must hold a master's or PhD, with expertise in aviation research and development. They must have a strong publication record in peer-reviewed journals, experience in securing research funding, and the ability to lead or contribute to collaborative research projects.

EDUCATION

A bachelor's degree in Aerospace or Mechanical Engineering, Physics, or a related field; a master's or PhD is often required.

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SUPPORTED BY sesar JOINT UNDERTAKING

Co-funded by the European Union

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YEARS OF TRAINING REQUIRED

Becoming fully qualified takes around 6–8 years of training. It begins with a bachelor's degree in aeronautical engineering, physics, or aviation science (3–4 years), followed by a master's or PhD in a specialized area (2–4 more years). Some roles may also require postdoctoral research.